2016 International Smart Grid Workshop and Certificate Program (ISGWCP 2016)

Istanbul, Turkey 21-25 March 2016



IEEE Catalog Number: ISBN:

CFP16F97-POD 978-1-5090-1420-0

Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***This publication is a representation of what appears in the IEEE Digital Libraries. Some format issues inherent in the e-media version may also appear in this print version.

 IEEE Catalog Number:
 CFP16F97-POD

 ISBN (Print-On-Demand):
 978-1-5090-1420-0

 ISBN (Online):
 978-1-5090-1419-4

Additional Copies of This Publication Are Available From:

Curran Associates, Inc 57 Morehouse Lane Red Hook, NY 12571 USA Phone: (845) 758-0400 Fax: (845) 758-2633

E-mail: curran@proceedings.com Web: www.proceedings.com



ISGWCP 2016 TABLE of CONTENT

Index	Paper Title & Authors	Pages
1	Energy Storage Technologies Opportunities and Challenges in Smart Grids	
	Engin Ozdemir (Kocaeli University), Sule Ozdemir (Kocaeli University), Koray Erhan (Kocaeli University), Ahmet Aktas (Kocaeli University)	15-20
2	Emerging Smart Metering Trends and Integration at MV-LV Level Ersan Kabalci (Nevsehir HBV University)	21-29
	Introduction to Smart Grid	
3	Ilhami Colak (Istanbul Gelisim University)	30-34
4	Fuzzy Controller Design Using Particle Swarm Optimization for Photovoltaic Maximum Power Point Tracking	
	Y. Soufi (University of Larbi Tébessi), M. Bechouat (University of 8 May 1945 Guelma), S. Kahla(University of 8 May 1945Guelma)	35-40
5	Policy and Development of Smart Grid in Taiwan Faa-Jeng Lin (National Central University), Yenhaw Chen (Taiwan Institute of Economic Research), Su-Ying Lu Taiwan Institute of Economic Research, Yvonne Hsu (Taiwan Institute of Economic Research)	41-47
6	Energy Storage Systems and Power System Stability Necmi ALTIN (Gazi University)	48-54
7	A Development of Evaluation and Verification System of Smart Grid with Modeling of Green Energy in University Campus	55-61
	Nobumasa Matsui (Nagasaki Institute of Applied Science), Yuji Mizuno (Nagasaki Institute of Applied Science), Tadahiro Kishikawa (Nagasaki Institute of Applied Science), Yoshito Tanaka (Nagasaki Institute of Applied Science)	

Index	Paper Title & Authors	Pages
8	The Path of the Smart Grid -The New and Improved Power Grid	62-69
	Ramazan Bayindir (Gazi University), Eklas Hossain (University of Wisconsin-Milwaukee), Seyfettin Vadi	
9	Real time implementation of unity power factor correction converter based on fuzzy logic	70-73
	Abderrahmen Benyamina (University of Médéa), Samir Moulahoum (University of Médéa)	